



28.5 x 28.5 x 26.5 (40.0) mm



- · Large switching capacity up to 80A
- PCB pin and quick connect mounting available
- · Suitable for automobile and lamp accessories
- QS-9000, ISO-9002 Certified Manufacturing

## Contact Data\*

044		4A - CDCT N. C			
Contact		1A = SPST N.O.			
Arrangement		1B = SPST N.C.			
		1C = SPDT			
		1U = SPST N.O. (2 terminals)			
Contact Rating		Standard	Heavy Duty		
	1A	60A @ 14VDC	80A @ 14VDC		
	1B	40A @ 14VDC	70A @ 14VDC		
	1C	60A @ 14VDC N.O.	80A @ 14VDC N.O.		
		40A @ 14VDC N.C.	70A @ 14VDC N.C.		
	1U	2x25A @ 14VDC	2x25@ 14VDC		

Contact Resistance	< 30 milliohms initial		
Contact Material	AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub>		
Max Switching Power	1120W		
Max Switching Voltage	75VDC		
Max Switching Current	80A		

## Coil Data\*

3		Coil Resistance Ω +/- 10%	Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms	
Rated	Max	1.8W	65% of rated voltage	10% of rated voltage				
12	15.6	80	7.8	1.2	1.0	7	5	
24	31.2	320	15.6	2.4	1.8			

# General Data\*

10M cycles, average		
100M Ω min. @ 500VDC initial		
500V rms min. @ sea level initial		
nitial		
147m/s <sup>2</sup> for 11 ms		
1.5mm double amplitude 10~40Hz		
8N (quick connect), 4N (PCB pins)		
-40°C to +125°C		
-40°C to +155°C		
260°C for 5 s		
46g		

<sup>\*</sup> Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.



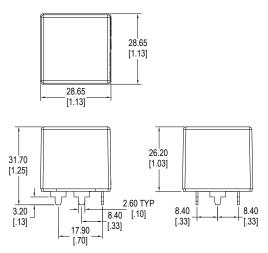
# **Ordering Information**

1. Series	A3F	1C	S	Q	24VDC	2	
A3 standard A3F with mount A3M with metal							
2. Contact Arrange 1A = SPST N.O 1B = SPST N.C 1C = SPDT 1U = SPST N.O		standard contacts					
3. Sealing Option S = Sealed *Sea C = Dust Cover	aling only available w	rith heavy duty conta	octs				
4. Termination P = PCB Pins Q = Quick Conn	ect						
5. Coil Voltage 12VDC 24VDC							
6. Contacts 1 = Standard *Sockets for these models can be found on the CIT Relay Socket catalog page 2 = Heavy Duty *We recommend the PR series socket from Custom Connector Corporation							
			0Ω for 24VDC)				

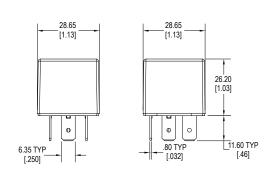
# Dimensions - A3

\*\* Consult factory if other values are needed

### Units = mm



Standard contacts (1) with PC Pin

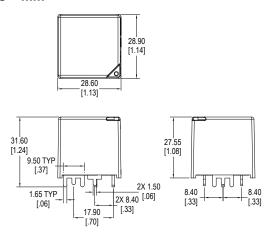


Standard contacts (1) with Quick Connect



# Dimensions - A3 Heavy Duty

#### Units = mm



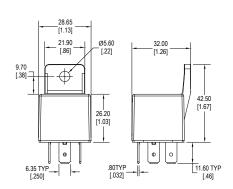
Heavy Duty contacts (2) with PC Pins

#### 28.40 [1.12] 28.40 [1.12] 27.55 [1.08] 2X 11.60 [.46] 3X 15.60 [.61] o 0 2X .80 [.032] 2X 6.35 3X 1.27 3X 9 53 [.050] [.375]

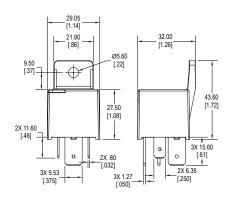
Heavy Duty contacts (2) with Quick Connects

## **Dimensions - A3F**

Units = mm



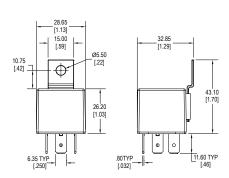
Standard contacts (1) with Quick Connect



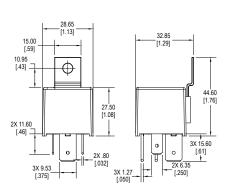
Heavy Duty contacts (2) with Quick Connects

## **Dimensions - A3M**

Units = mm



Standard contacts (1) with Quick Connect

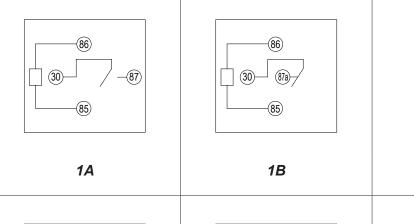


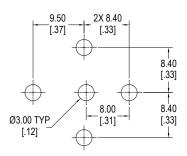
Heavy Duty contacts (2) with Quick Connects



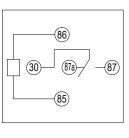
# Schematics & PC Layouts

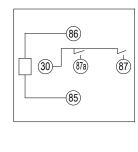
### **Bottom Views**

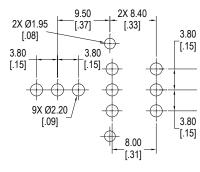




Standard PC Layout







1U

Heavy Duty PC Layout